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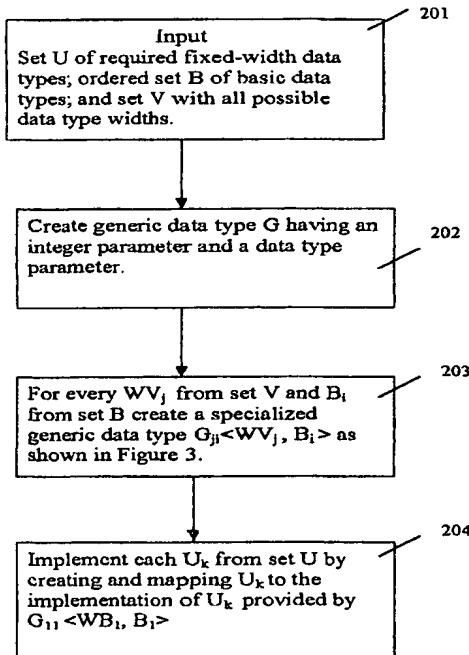
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[Continued on next page]

(54) Title: A METHOD OF IMPLEMENTING FIXED-WIDTH DATA TYPES



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(57) Abstract: A method of implementing fixed-width data types which are not directly supported by a programming language, in a portable manner. A set U of required fixed-width data types, an ordered set B of basic data types and a set V with all possible data type widths are provided as inputs (201). A generic data type G having an integer parameter and a data type parameter is created (202). For every data type width WVj from set V and basic data type Bi from set B a specialized data type G is created (203). Then, each required data type Uk from set U of required data types is implemented by creating and mapping required data type Uk to the implementation of Uk provided by the generic data type G11 having the parameters data type width WB1 and basic data type B1 (204).

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :G06F 9/14
US CL : 717/100

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 717/100, 114, 140-143

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
WEST

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

IEEE ONLINE, ACM ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,E	US 6,381,736 B1 (KLOTZ et al) 30 April 2002.	1-2
A,E	US 6,388,586 B1 (FISCHER et al) 14 May 2002.	1-2
A	US 5,828,884 A (LEE et al) 27 October 1998.	1-2
A	US 6,055,370 A (BROWN et al) 25 April 2000.	1-2
A	US 6,044,216 A (BHARGAVA et al) 28 March 2000.	1-2
A	US 6,247,174 B1 (SANTHANAM et al) 12 June 2001.	1-2
A	US 6,049,667 A (BATES) 11 April 2000.	1-2

 Further documents are listed in the continuation of Box C. See patent family annex.

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